(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization

International Bureau



. | 1886 | 1887 | 1887 | 1887 | 1887 | 1887 | 1888 | 1888 | 1888 | 1888 | 1888 | 1888 | 1888 | 1888 | 1888 | 1

(43) International Publication Date 31 December 2003 (31.12.2003)

PCT

(10) International Publication Number WO 2004/000159 A3

(51) International Patent Classification⁷: 43/20, A61L 2/08, 9/22, 31/12

B29C 43/18,

(21) International Application Number:

PCT/US2003/018053

(22) International Filing Date:

10 June 2003 (10.06.2003)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

60/390,120

21 June 2002 (21.06.2002) US

60/424,709

8 November 2002 (08.11.2002) U

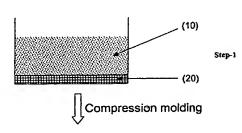
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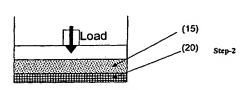
(72) Inventors; and

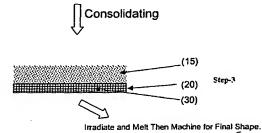
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- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),

[Continued on next page]

(54) Title: METAL BACK OR MESH CROSSLINKING







(UHMWPE) (10) that is pressed into a consolidated form (15) in contact with another piece (such as a metallic mesh or back, a non-metallic mesh or back, a tibial tray, a patella tray, or an acetabular shell) (20) thereby forming an interface, and a hybrid component (30). Also disclosed herein are the methods of manufacturing and sterilizing such medical devices and materials used therein.

(57) Abstract: The present invention relates to medical

implants that comprise crosslinked polyethylene

Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

(88) Date of publication of the international search report: 29 December 2004

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.



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INTERNATIONAL SEARCH REPORT

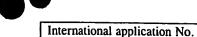
21 DEC 2004

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 37697-0076		FOR FURTHER ACTION	see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.				
International application No. PCT/US03/18053		International filing date (day/month/year) 10 June 2003 (10.06.2003)		(Earliest) Priority Date (day/month/year) 21 June 2002 (21.06.2002)			
Applicant MASSACHUSETTS GENERAL HOSPITAL							
This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau. This international search report consists of a total of 3 sheets.							
It is also accompanied by a copy of each prior art document cited in this report.							
Basis of the Report a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.							
the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)). b. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international search was carried out on the basis of the sequence listing:							
	contained in the internation	al application in written form.					
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	furnished subsequently to the	furnished subsequently to this Authority in written form.					
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	international application as						
	been furnished.		e form is i	dentical to the written sequence listing has			
2.	Certain claims were found	d unsearchable (See Box I).					
3.	3. Unity of invention is lacking (See Box II). 4. With regard to the title, the text is approved as submitted by the applicant.						
4. Y							
		ed by this Authority to read as follow	' s:	•			
5.	With regard to the abstract,						
	the text is approved as sub	mitted by the applicant.					
				as it appears in Box III. The applicant may, ort, submit comments to this Authority.			
6.	as suggested by the applicate because the applicant faile		No. <u>1</u>	None of the figures			
1							

Form PCT/ISA/210 (first sheet) (July 1998)





PCT/US03/18053

Box III TEXT OF THE ABSTRACT (Continuation of Item 5 of the first sheet)

The technical features mentioned in the abstract do not include a reference sign between parentheses (PCT Rule 8.1(d)).

NEW ABSTRACT

The present invention relates to medical implants that comprise crosslinked polyethylene (UHMWPE) (10) that is pressed into a consolidated form (15) in contact with another piece (such as a metallic mesh or back, a non-metallic mesh or back, a tibial tray, a patella tray, or an acetabular shell) (20) thereby forming an interface, and a hybrid component (30). Also disclosed herein are the methods of manufacturing and sterilizing such medical devices and materials used therein.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/18053

A. CLASSIFICATION OF SUBJECT MATTER IPC(7) : B29C 43/18, 43/20; A61L 02/08, 9/22, 31/12 US CL : 264/112, 250, 273, 274, 319, 320; 526/352; 623/18.11,19.11,20.11,20.14,22.11,23.11; 128/898; 422/28							
According to International Patent Classification (IPC) or to both national classification and IPC							
B. FIELDS SEARCHED							
Minimum documentation searched (classification system followed by classification symbols) U.S.: 264/112, 250, 273, 274, 319, 320; 526/352; 623/18.11,19.11,20.11,20.14,22.11,23.11; 128/898; 422/28							
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched							
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) EAST and WEST							
C. DOCUMENTS CONSIDERED TO BE RELEVANT							
Category *	Citation of document, with indication, where ap	Relevant to claim No.					
Y	US 5,879,400 A (MERRILL et al.) 09 March 1999 (column 6, lines 40-45, claims 1-20.	1-185					
Y	US 6,245,276 A (McNULTY et al.) 12 June 2001 (1	1-185					
Y,P	US 6,547,828 A (SCOTT et al.) 15 April 2003 (15.0	1-185					
Y,P	US 6,566,451 A (WANG et al.) 20 May 2003 (20.05	1-185					
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Further	documents are listed in the continuation of Box C.	See patent family annex.					
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Date of the actual completion of the international search Date of mailing of the international search report							
	2004 (07.10.2004)	18 OCT 2004					
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